

AURELIUS TOWNSHIP

Ingham County

1939 S. Aurelius Road • Mason, Michigan 48854-9729

(517) 628-2093 • Fax (517) 628-3989

website: www.aureliustwp.org

Bill To:

MBH Trucking
672 North Stockbridge Rd.
Webberville, MI 48892

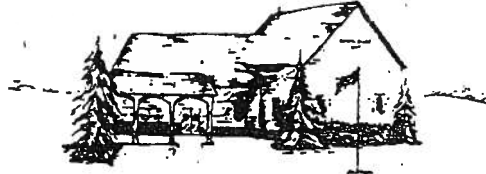
STATEMENT

Statement Date	Description	Amount
June 11, 2008	Incident on 5/6/08 Mason Fire - Chemical spill or leak Ingham County Hazmat	800.00 874.62
	Total:	\$1,674.62

Make check payable to: **Aurelius Township**

Mail to: **Aurelius Township**
1939 S. Aurelius Road
Mason, MI 48854

DUE UPON RECEIPT



AURELIUS TOWNSHIP

Ingham County

1939 S. Aurelius Road • Mason, Michigan 48854-9729

(517) 628-2093 • Fax (517) 628-3989

website: www.aureliustwp.org

June 11, 2008

MBH Trucking
672 North Stockbridge Road
Webberville, MI 48892

Re: Chemical Spill or Leak

Dear MBH Tucking,

Enclosed please find a bill for services from the Mason Fire Department. If you have insurance that will cover this incident this bill should be forwarded to your insurance company for payment. If you do not have coverage for this incident please contact our office to discuss payment options. The office is open Tuesday through Friday, 10:00 AM – 3:00 PM.

Your prompt attention to this matter is appreciated.

Sincerely,

Shelly R. Heaviland
Deputy Clerk

Enclosures

INGHAM COUNTY HAZARDOUS MATERIALS RESPONSE TEAM

INVOICE

DATE: 5/6/08

ALARM TIME: 17:47

ARRIVAL TIME: 18:05

TIME CLEARED: 19:31

INCIDENT LOCATION: 4904 Barnes Rd, Mason, MI 48854

FIRE DEPT. JURISDICTION: Mason Fire Department

ADDRESS: _____

PHONE: 517-244-9025

CHIEF OR DIRECTOR: Kerry Minshall

RESPONSE ACTION TAKEN: Provided air monitoring.

GENERAL PROPERTY USE: Agricultural

TYPE OF VEHICLE INVOLVED: Semi Tanker

RESPONSIBLE COMPANY NAME: MBH Trucking

ADDRESS: 672 North Stockbridge Rd
Webberville, MI 48892

DRIVER: David Castleman

PHONE #: 517-521-2124

DRIVER'S LICENSE _____

INSURANCE COMPANY

NAME: Empire Insurance, David Chapman Agency

ADDRESS: 5700 Mt Hope Hwy, Lansing, MI 48917

WEATHER CONDITIONS: clear

TEMPERATURE: 76°

WIND SPEED: 15 - 20

DIRECTION: West

AREA OF RELEASE: anhydrous ammonia storage area

TYPE OF RELEASE: anhydrous ammonia UN1005

NUMBER OF PERSON OR PERSONS INJURED: none

NUMBER OF INGHAM COUNTY HAZMAT PERSONNEL INJURED: none

LIST THE NAMES, ADDRESSES, AND TYPES OF INJURIES ON THE BACK OF THIS PAGE.

RESPONDING ICHMRT PERSONNEL.

NAME	DEPARTMENT	HOURS	RATE/HR	TOTAL
George Gilliland	Leslie Fire Department	2	\$20.00	\$40.00
Tim Whipple	Ingham Twp Fire Department	2	\$20.00	\$40.00
Scott Speck	Ingham Twp Fire Department	2	\$20.00	\$40.00
Matt Valley	Ingham Twp Fire Department	2	\$20.00	\$40.00
Mike Martin	Ingham Twp Fire Department	2	\$20.00	\$40.00
Dave Richard	Leslie Fire Department	2	\$20.00	\$40.00
Jim Jones	Mason Fire Department	2	\$20.00	\$40.00
Mike Perez	ICSO	2	\$47.31	\$94.62
			\$20.00	
			\$20.00	
			\$20.00	
			\$20.00	
			\$20.00	
			\$20.00	

TOTAL PERSONNEL COST: \$374.62

SPECIAL HAZMAT RESPONSE ACTION TAKEN:

Monitor air quality.

SPECIAL HAZMAT RESPONSE ACTION TAKEN:

HAZMAT TRUCK: \$250.00 PER HOUR

HRS: 2 @ \$250 \$500

PERSONNEL COST TOTAL:

HRS: 14 @ \$20 \$280

SPECIAL EQUIPMENT COST TOTAL:

\$ 0

EQUIPMENT REPLACEMENT COST TOTAL:

\$ 0

TOTAL DUE: \$874.62

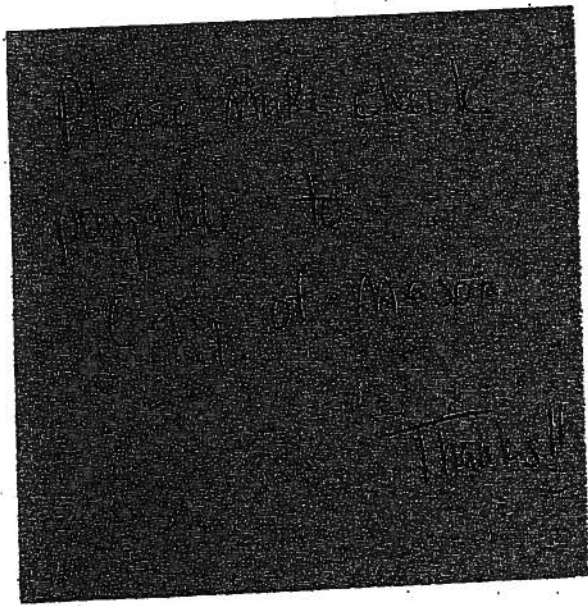
PERSON IN CHARGE OF HAZMAT RESPONSE TEAM:

SIGNED BY: _____

INVOICE IS DUE UPON RECEIPT AND PAYABLE TO: INGHAM COUNTY TREASURER/ COUNTY HAZMAT TEAM

PLEASE REMIT TO:

INGHAM COUNTY TREASURER
INGHAM COUNTY HAZMAT TEAM
PO BOX 215
2ND FLOOR COURTHOUSE
MASON MI 48854



MBH TRUCKS LLC
672 N M 52
P.O. BOX 600
WEBBERVILLE, MI 48892

74-1012/724
3168017402

613

DATE 6/17/08

PAY TO Aurelius Township \$ 1674⁰⁰/₁₀₀
THE ORDER OF
One thousand six hundred Seventy four⁰⁰/₁₀₀ DOLLARS



MEMO Spill fees

⑆072410123⑆ 3168017402⑆ 0613

DIVISION 3. RECOVERY OF HAZARDOUS MATERIALS EMERGENCY EXPENSES

Sec. 2-181. Purpose.

The Charter Township of Aurelius has determined that procedures and methods for recovery of costs associated with emergency response to the release or threatened release of hazardous substances are necessary to fairly allocate costs in connection with such activities, and that establishing the appropriate amount to be charged for such services, and a liability for costs associated with a response to hazardous substance release, is necessary to the health, safety and welfare of the township and its population.

(Ord. No. 33, § 1, 6-11-1996; Ord. No. 33.01, § 1, 5-10-2005)

Sec. 2-182. Definitions.

Unless specifically defined below, words or phrases used in this division shall be interpreted so as to give the meaning they have in common usage and to give this division its most reasonable application:

Building means any structure used or intended for supporting any use or occupancy.

The meaning of the terms "response activity," "cost of response activity," "owner," "operator," "hazardous substance," and "facility" shall be as defined by the Natural Resources and Environmental Protection Act (NREPA), as amended.

(Ord. No. 33, § 2, 6-11-1996; Ord. No. 33.01, § 2, 5-10-2005)

Cross references: Definitions generally, § 1-2.

Sec. 2-183. Hazardous substance incidents policy.

(a) In the event that township employees are dispatched to a hazardous substance incident, the township employee in charge shall notify the responsible parties, including appropriate state and federal agencies, as soon as possible. Township personnel shall make efforts to limit the township's actions to those necessary to address dangers from fire or the imminent threat of fire or the imminent threat from any hazardous substance, and the necessary evacuation of affected persons.

(b) Except for procedures necessitated by fire or the imminent threat of fire or other danger (including hazardous environmental impact) resulting from a hazardous substance incident, township officials are not authorized to incur any obligations, financial or otherwise, to the township in regard to the mitigation of impacts resulting from a hazardous substance incident.

(c) All township personnel shall take appropriate steps for a hazardous substance response activity that conforms to their level of training and, as appropriate, to the supplies and equipment available to them in accordance with established protocols and procedures.

(Ord. No. 33, § 3, 6-11-1996; Ord. No. 33.01, § 3, 5-10-2005)

Sec. 2-184. Liability for expense of an emergency response.

(a) *Response activity costs.*

Printed: 05/12/2008

Page: 2

Remarks for Incident: 0000066 Exp.: 000 Date: 05/06/2008 Time: 17:38

MASON, MI 48854
517-628-2050

DELIVERY COMPANY;
MBH TRUCKS
BRIAN HITCHCOCK
672 STOCKBRIDGE RD.
WEBBERVILLE, MI 48892
517-521-2124

EMPIRE INSURANCE COMPANY THRU
DAVID CHAPMAN AGENCY
5700 MOUNT HOPE HWY
LANSING, MI 48917
517-321-4600

(1) Except as otherwise provided by the NREPA, as amended, the following persons are liable under this division for the cost of response activity:

- a. The owner or operator of a facility if the owner or operator is responsible for an activity causing a release or threat of release.
- b. A person who by contract, agreement, or otherwise arranged for disposal or treatment, or arranged with a transporter for transport for disposal or treatment, of a hazardous substance owned or possessed by the person, by any other person, at a facility owned or operated by another person and containing the hazardous substance.
- c. A person who accepts or accepted any hazardous substance for transport to a facility selected by that person.
- d. The estate or trust of a person described in subsections a.-c.

(2) Notwithstanding subsection (1), the following persons are not liable unless the person is responsible for an activity causing a release at the facility:

- a. A person who owns or occupies residential real property if hazardous substance use at the property is consistent with residential use.
- b. A person who acquires a facility as a result of the death of the prior owner or operator of the facility, whether by inheritance, devise, or transfer from an inter vivos or testamentary trust.
- c. A person who did not know and had no reason to know that the property was a facility.
- d. A utility performing normal construction, maintenance, and repair activities in the normal course of its utility service business. This subsection does not apply to property owned by the utility.
- e. A lessee who uses property for retail, office, or commercial purpose.

(3) Notwithstanding subsection (1), a person who owns or operates a facility in which the release or threat of release was caused solely by one or more of the following is not liable under this division:

- a. An act of God;
- b. An act of war;
- c. An act or omission of a third party other than an employee or agent of the person or a person in a contractual relationship existing either directly or indirectly with a person who is liable under this division.

(4) Except as otherwise provided in this section, a person who is a response activity contractor for any release or threatened release is not liable to any person for injuries, costs, damages, expenses, or other liability, including, but not limited to, claims for indemnification or contribution and claims by third parties for death, personal injuries, illness, or loss of or damages to property or economic loss that result from the release or threatened release. This subsection does not apply if a release or threatened release is caused by conduct of the response activity contractor that is negligent, grossly negligent, or that constitutes intentional misconduct.

(b) *Cost recovery and billing procedures.* At the conclusion of a hazardous substance threatened release or release-related response activity, the township supervisor shall submit a detailed listing of all known expenses to the township treasurer, who shall prepare an invoice to the responsible party for payment. The treasurer's invoice shall demand full payment within 30 days of receipt of the bill. Any additional expenses that become known to the township following

transmittal of the bill shall be billed in the same manner to the responsible party. For any amounts due that remain unpaid after 30 days, the township shall impose a late charge of one percent per month, or a fraction thereof.

(c) *Minimum fees.* The township board shall from time to time establish a minimum fee for the cost of necessary response activity and may amend same from time to time by resolution. A copy of said resolution shall remain on file with the township clerk.

(d) *Failure to pay; procedure to recover costs and remedies.* Upon failure by the person described in this division as liable or responsible for the cost of response activity to pay said bill within 30 days of mailing or service of the bill, the township may institute any appropriate action or proceedings in any court of competent jurisdiction to collect charges imposed pursuant to this division and as otherwise provided by law. Recovery of charges imposed under this division shall not limit the liability of responsible parties under local ordinance or state or federal law, rule or regulation. The responsible party may remit payment for all such charges without admitting liability for any other purpose.

(Ord. No. 33, § 4, 6-11-1996; Ord. No. 33.01, § 4, 5-10-2005)



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

SPILL OR RELEASE REPORT

NOTE: Some regulations require a specific form to use and procedures to follow when reporting a release. Those forms and procedures MUST be used and followed if reporting under those regulations. This report form is to aid persons reporting releases under regulations that do not require a specific form. This report form is not required to be used. To report a release, some regulations require a facility to call the PEAS Hotline at 800-292-4706, or DEQ District Office that oversees the county where it occurred, and other regulating agencies and provide the following information. A follow-up written report may be required. Keep a copy of this report as documentation that the release was reported. If you prefer to submit this report electronically by FAX or e-mail, contact the regulating agency for the correct telephone number or e-mail address. See the DEQ website on Spill/Release Reporting for more reporting information.

Please print or type all information.

Form with fields: NAME AND TITLE OF PERSON SUBMITTING WRITTEN REPORT, TELEPHONE NUMBER, NAME OF BUSINESS, RELEASE LOCATION, STREET ADDRESS, CITY, STATE, ZIP CODE, BUSINESS TELEPHONE NUMBER, COUNTY, TOWNSHIP, TIER/RANGE/SECTION.

RELEASE DATA. Complete all applicable categories. Check all the boxes that apply to the release. Provide the best available information regarding the release and its impacts. Attach additional pages if necessary.

Form with fields: DATE & TIME OF RELEASE, DATE & TIME OF DISCOVERY, DURATION OF RELEASE, TYPE OF INCIDENT (Explosion, Fire, Leaking container, Loading/unloading release, Pipe/valve leak or rupture, Vehicle accident, Other).

Form with fields: MATERIAL RELEASED (RQ Ammonia Anhydrous), CAS NUMBER or HAZARDOUS WASTE CODE (Class 202 (8) UN1005), ESTIMATED QUANTITY RELEASED (820 LBS), PHYSICAL STATE RELEASED (Gas).

Form with fields: FACTORS CONTRIBUTING TO RELEASE (Equipment failure, Operator error, Faulty process design, Training deficiencies, Unusual weather conditions, Other), SOURCE OF LOSS (Container, Railroad car, Pipeline, Ship, Tank, Tanker).

Form with fields: TYPE OF MATERIAL RELEASED (Agricultural: manure, pesticide, fertilizer, Chemicals, Flammable or combustible liquid, Hazardous waste, Liquid industrial waste, Oil/petroleum products or waste, Salt, Sewage, Other, Unknown), MATERIAL LISTED ON or DEFINED BY (CAA Section 112(r) list, CERCLA Table 302.4, EPCRA Extremely Hazardous Substance, Michigan Critical Materials Register or permit, NREPA Part 31, NREPA Part 111 or RCRA hazardous waste, NREPA Part 121 liquid industrial waste, Other list Class 2.2 (8) UN1005, Unknown), IMMEDIATE ACTIONS TAKEN (Containment, Dilution, Evacuation, Hazard removal, Neutralization, System shut down, Diversion of release to treatment, Decontamination of persons or equipment, Monitoring, Other).

Form with fields: RELEASE REACHED (Surface waters, Drain connected to sanitary sewer, Drain connected to storm sewer, Groundwater, Soils, Ambient Air), Distance from spill location to surface water, in feet.

EXTENT OF INJURIES, IF ANY

None

WAS ANYONE HOSPITALIZED?

Yes NUMBER

HOSPITALIZED: _____

No

TOTAL NUMBER OF INJURIES TREATED ON-SITE:

None

DESCRIBE THE INCIDENT, THE TYPE OF EQUIPMENT INVOLVED IN THE RELEASE, HOW THE VOLUME OF LOSS WAS DETERMINED, ALONG WITH ANY RESULTING ENVIRONMENTAL DAMAGE CAUSED BY THE RELEASE. IDENTIFY WHO IMMEDIATELY RESPONDED TO THE INCIDENT (own employees or contractor — include cleanup company name, contact person, and telephone number). ALSO IDENTIFY WHO DID FURTHER CLEANUP ACTIVITIES, IF PERFORMED OR KNOWN WHEN REPORT SUBMITTED

CHECK HERE IF DESCRIPTION OR ADDITIONAL COMMENTS ARE INCLUDED ON ATTACHED PAGE

Actual weight of truck

ESTIMATED QUANTITY OF ANY RECOVERED MATERIALS AND A DESCRIPTION OF HOW THOSE MATERIALS WERE MANAGED (include disposal method if applicable)

CHECK HERE IF DESCRIPTION OR ADDITIONAL COMMENTS ARE INCLUDED ON ATTACHED PAGE

Nothing recovered, all vaporized

ASSESSMENT OF ACTUAL OR POTENTIAL HAZARDS TO HUMAN HEALTH (include known acute or immediate and chronic or delayed effects, and where appropriate, advice regarding medical attention necessary for exposed individuals.)

CHECK HERE IF DESCRIPTION OR ADDITIONAL COMMENTS ARE INCLUDED ON ATTACHED PAGE

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY NOTIFIED:

INITIAL CONTACT BY: Telephone Fax Email Other

DATE/TIME INITIAL CONTACT: _____

PEAS: 800-292-4706 Log Number Assigned MC 522 327

DEQ District or Field Office Divisions or Offices Contacted:

- | | | |
|--|---|--|
| <input type="checkbox"/> Baraga | <input type="checkbox"/> Gwinn | <input type="checkbox"/> Air Quality |
| <input type="checkbox"/> Bay City | <input type="checkbox"/> Jackson | <input type="checkbox"/> Land & Water Management |
| <input type="checkbox"/> Cadillac | <input type="checkbox"/> Kalamazoo | <input type="checkbox"/> Office Geological Survey |
| <input type="checkbox"/> Crystal Falls | <input checked="" type="checkbox"/> Lansing | <input type="checkbox"/> Remediation and Redevelopment |
| <input type="checkbox"/> Detroit | <input type="checkbox"/> Newberry | <input type="checkbox"/> Waste and Hazardous Materials |
| <input type="checkbox"/> Gaylord | <input type="checkbox"/> Warren | <input type="checkbox"/> Water Bureau |
| <input type="checkbox"/> Grand Rapids | <input type="checkbox"/> Wyoming | |
- DEQ Office locations are subject to change

NAME AND TITLE OF PERSON MAKING INITIAL REPORT:

DEQ STAFF CONTACTED & PHONE NUMBER:

OTHER ENTITIES NOTIFIED:

- | | Date: | Time: |
|---|--------|-------|
| <input checked="" type="checkbox"/> National Response Center (NRC): 800-424-8802 | 5/9/08 | 4:00 |
| <input type="checkbox"/> US Coast Guard Office: | _____ | _____ |
| <input type="checkbox"/> Detroit <input type="checkbox"/> Grand Haven <input type="checkbox"/> Sault Ste. Marie | | |
| <input type="checkbox"/> US Department of Transportation | _____ | _____ |
| <input type="checkbox"/> US Environmental Protection Agency | _____ | _____ |
| <input checked="" type="checkbox"/> 911 (or primary public safety answering point) | 5/6/08 | 5:30 |
| <input checked="" type="checkbox"/> Local Fire Department | 5/6/08 | 5:30 |
| <input checked="" type="checkbox"/> Local Police and/or State Police | 5/6/08 | 5:30 |
| <input type="checkbox"/> Local Emergency Planning Committee | _____ | _____ |
| <input type="checkbox"/> State Emergency Response Commission via MI SARA Title III Program | _____ | _____ |
| <input type="checkbox"/> Wastewater Treatment Plant Authority | _____ | _____ |
| <input checked="" type="checkbox"/> Hazmat Team | 5/6/08 | 5:30 |
| <input type="checkbox"/> Local Health Department | _____ | _____ |
| <input type="checkbox"/> Department of Labor & Economic Growth MIOSHA | _____ | _____ |
| <input type="checkbox"/> Department of Labor & Economic Growth Fire Safety | _____ | _____ |
| <input type="checkbox"/> Michigan Department of Agriculture: 800-405-0101 | _____ | _____ |
| <input type="checkbox"/> Other _____ | _____ | _____ |

PERSON CONTACTED & PHONE NUMBER:

Brian Hitchcock

From: Susan Parker [parkers5@michigan.gov]
Sent: Monday, May 12, 2008 11:23 AM
To: brian@mbhtrucking.net
Subject: release reporting

Hi Brian -

Go to www.michigan.gov/deqrelease for information on reporting releases in Michigan. The release notification requirements table summarizes all of the requirements. The introduction to that table gives the bottom line:

Make 3 phone calls immediately...

Local: 911 ✓

State: 800-292-4706 ✓

Federal: 800-424-8802 ✓

The DOT report form can be completed online or in paper form. It is available on this webpage:

<http://hazmat.dot.gov/enforce/spills/spills.htm>

The DEQ report form should be completed and returned to:

Herb Corey
Ingham Co LEPC
5303 S. Cedar St
PO Box 30161
Lansing, MI 48909

← mailed DEQ Spill or Release
Report 5/12/08

and

Michigan SARA Title III Program
Department of Environmental Quality
PO Box 30457
Lansing, MI 48909-7957

Let me know if you have any questions. Thanks.

- Susan

Susan E. Parker
Community Right-to-Know Coordinator
Michigan SARA Title III Program
parkers5@michigan.gov (NEW EMAIL ADDRESS!) (517)335-4650

"Communication. What a concept!"

No virus found in this incoming message.

Checked by AVG.

Version: 7.5.524 / Virus Database: 269.23.16/1427 - Release Date: 5/11/2008 1:08 PM



Terra Industries Inc.
Terra Centre - 600 Fourth Street
Sioux City, Iowa 51101

Material Safety Data Sheet

Anhydrous Ammonia

MSDS Number 2001 (Revised January 2, 2008)

10 Pages

1. CHEMICAL PRODUCT and EMERGENCY TELEPHONE CONTACT

Product Name: Anhydrous Ammonia
 Chemical Family: Inorganic Nitrogen Compound
 Synonyms: Ammonia, Liquid Ammonia, Nitro-Sil, Spirit of Hartshorn, NH₃
 Formula: NH₃
 Product Use: Fertilizers; Fibers and Plastics; Explosives; Animal Feed; SCR NO_x Control
EMERGENCY TELEPHONE NUMBER
 CHEMTREC (U.S.): 800-424-9300
 CANUTEC (Canada): 613-996-6666

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name/CAS Number	Concentration	Exposure Limits
Ammonia #17664-41-7	99-100%	25 ppm TW/A 35 ppm STEL 50 ppm PEL 300 ppm IDLH

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Colorless gas and liquid (liquid under pressure). Vapor is toxic and irritating to eyes, nose, throat and skin. Liquid will burn skin and eyes and cause frostbite. Vapor is flammable under limited conditions. Use water to control fire and disperse vapors. Do not put water on liquid ammonia.

NFPA Hazard Classification

Health Hazard (Blue)	Flammability (Red)	Reactivity (Yellow)
3	1	0

POTENTIAL HEALTH EFFECTS

Primary Routes of Entry: Inhalation, skin contact/absorption and eye contact.

General Acute Exposure: Anhydrous ammonia reacts with moisture in mucosal surfaces (eyes, skin, and respiratory tract) to produce ammonium hydroxide, which may cause caustic injury. The severity of injury depends upon the concentration and duration of exposure. The extent of injury ranges from mild cough to laryngeal edema and life threatening pulmonary edema.

Inhalation:

Acute Exposure: Ammonia is toxic and a severe irritant of the respiratory tract. It may cause a running nose, coughing, chest pain, cessation of respiration and death. It may cause severe breathing difficulties, which may be delayed in onset. **ADDITIONAL MEDICAL INFORMATION:** Bronchospasm, laryngitis, tracheitis, wheezing, dyspnea, and laryngeal edema may be noted. Mucosal burns to the tracheobronchial tree, Pulmonary Edema, and associated hypoxemia frequently occur following exposure to concentrated ammonia.

Skin:

Acute Contact: Ammonia is a severe irritant of the skin. Skin exposure to high concentrations of the gas may cause burning and blistering. Contact with liquid may cause severe skin burns. **ADDITIONAL MEDICAL INFORMATION:** Concentrated ammonia may produce liquefaction necrosis and deep penetrating burns.

Eye:

Acute Contact: Exposure to the eyes (>700 ppm) may cause temporary or permanent blindness. **ADDITIONAL MEDICAL INFORMATION:** Eye exposure may result in conjunctivitis, lacrimation and/or corneal irritation. Total corneal epithelial loss may occur.

Neurologic:

Acute Exposure: An altered mental status (coma) may be seen, but is not characteristic unless hypoxemia occurs.

Gastrointestinal:

Acute Exposure: Nausea and vomiting occurs frequently following ingestion. Swelling the lips, mouth, and larynx, and oral or esophageal burns may occur if concentrated ammonia solutions are ingested.

Genitourinary:

Acute Exposure: Urinary retention may occur.

Note to the Physician: Pneumonitis should be anticipated after inhalation or ingestion. Severe exposure is suspected, observe for 48-72 hours for delayed pulmonary edema.

Carcinogenicity:

NTP:	Not Listed
IARC:	Not Listed
OSHA:	Not Regulated

Medical Conditions Aggravated by Exposure: Chronic respiratory or skin disease

7. HANDLING AND STORAGE

Follow the current ANSI-K61.1 Standard, "Safety Requirements for the Storage and Handling of Anhydrous Ammonia", or applicable Ammonia Manufacturing Industry Standards. (See Section 15 for Information on Equipment, Pressure Vessels and Testing).

Handling Precautions: Use proper personal protective equipment when working with or around ammonia. See Section 8.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Respiratory Protection Requirements:

- <25 ppm: No protection required.
- 25 to 35 ppm: Protection required if the daily TWA is exceeded.
- 35 to 50 ppm: Protection required if exposed for more than 15 minutes.
- 50 to 250 ppm: Minimum of an air-purifying respirator equipped with ammonia canister(s) or cartridge(s).
- 250 to 300 ppm: Minimum of a full-face air-purifying respirator equipped with ammonia canister(s) or cartridge(s).
- >300 ppm: A fresh air supply system must be used (i.e. positive pressure self contained breathing apparatus).

Skin Protection Requirements: Skin protection is required for exposure to liquid, mist, and > 1000 ppm of ammonia gas or vapor. Neoprene or rubber gauntlet-type gloves, ammonia resistant clothing (overalls, jacket, and boots) or vapor suit, as required.

Eye Protection Requirements: Use chemical (indirectly vented) goggles when there is a potential for contact with liquid or mist. A full-face shield is recommended in addition to goggles for added protection.

Other Protective Equipment: Safety shower and eyewash fountain should be provided in the ammonia handling area. In agricultural distribution, provide easily accessible shower and/or at least 100 gallons of clean water in open top container (check regulations). When transporting, provide at least 5 gallons of readily accessible, clean water and personal protective equipment.

Engineering Controls: Maintain adequate ventilation to keep ammonia concentrations below applicable standards when possible.

NOTE: See Section 2 for regulatory exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Gas (liquid under pressure)
Color: Colorless gas and liquid, forms white vapor in contact with moisture
Odor: Strong pungent penetrating odor, ammonia.
Boiling Point: -28.1° F (-33° C) at 1 atm
Melting point: -107.9° F (-78° C)
pH: Approximately 12.0 (neat)
Solubility: 510 - 530 g/L @ 20° C
Specific Gravity: 0.6818 @ -33.35° C and 1 atm
Vapor Density: 0.597 @ 0° C (0.60 @ 60° F)
Vapor Pressure: 7,600 mm Hg @ 25° C (93 psig @ 60° F)
% Volatile by Volume: 100
Molecular Weight: 17.03
Density: 0.696 g/L @ 20° C (5.14 lb./gal. @ 60° F)
Critical Temperature: 271° F (133° C)
Critical Pressure: 1636 psia

10. REACTIVITY

Stability: This is a stable material.
Hazardous Polymerization: Will not occur.

Decomposition: Hydrogen is released on heating above 850° F (454° C). The decomposition temperature may be lowered to 575° F (300° C) by contact with certain metals such as nickel. At 1290° F (690° C) or in the presence of an electric spark, ammonia decomposes into nitrogen and hydrogen gases, which may form a flammable mixture in the air.

Incompatibilities:

- a. Ammonia has potentially explosive or violent reactions with interhalogens, strong oxidizers, Nitric Acid, Fluorine, and Nitrogen Oxide.
- b. Ammonia forms sensitive explosive mixtures with air and hydrocarbons, Ethanol and Silver Nitrate, and Chlorine; and explosive products are formed by the reaction of ammonia with Silver Chloride, Silver Oxide, Bromine, Iodine, Gold, Mercury, and Tellurium Halides.
- c. Ammonia is incompatible or has potentially hazardous reactions with Silver, Acetaldehyde, Acrolein, Boron, Halogens, Perchlorate, Chloric Acid, Chlorine Monoxide, Chlorine, Nitrogen Peroxide, Tin, and Sulfur.

NOTE: The incompatibilities above are a partial list taken from two books by Sax & Lewis: "Dangerous Properties of Industrial Materials", 7th. ed., 1989 and "Hawley's Condensed Chemical Dictionary", 11th. ed. 1987, both published by Van Nostrand Reinhold Company, New York. It is recommended that if additional information is required, the reader refer to these and other published information.

15. REGULATORY INFORMATION

Controlled Products Regulations Classification: A: Compressed Gas; E: Corrosive

OSHA: This product is considered a hazardous material under criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200 (Toxic, Corrosive), and is listed as a Highly Hazardous Chemical subject to the requirements of the Process Safety Management Standard 29 CFR 1910.119.

CAA Chemical Accident Prevention: Ammonia is considered a regulated substance subject to the Chemical Accident Prevention provisions of 40 CFR Part 68. The threshold quantity for this substance is 10,000 lbs.

SARA TITLE III:

- a. EHS (Extremely Hazardous Substances) List: Listed (EPA, 1992a)
- b. SARA RQ (Reportable Quantity): 100 pounds
- c. TPQ (Threshold Planning Quantity): 500 pounds
- d. Regulation: "Emergency Planning and Notification" - 40 CFR Part 355 (Appendices A and B).
- e. Section 313: "Specific Toxic Chemical Listings" - 40 CFR Part 372
Ammonia is subject to the reporting requirements of Section 313 "Specific Toxic Chemical Listings" 40 CFR Part 372. Tera is required by 40 CFR 372.45 to notify certain customers as to which of its mixture or trade name products contain those chemicals. The purpose of that notification is to ensure that facilities that may be subject to the reporting requirements of Section 313 and that use products of unknown formulation will have knowledge that they are receiving products that contain chemicals subject to those reporting requirements.

CERCLA Hazardous Substances List:

- a. CERCLA RQ (Reportable Quantity): 100 pounds
- b. Regulation: "Designation, Reportable Quantities, Notification" - 40 CFR 302

TSCA Inventory: Listed (RTECS)

Chemical Facility Anti-Terrorism Standard (CFATS) / 6 CFR Part 27:
Ammonia (anhydrous) is listed in Appendix A as a Chemical of Interest (COI) due to threat of "Release"
Screening Threshold Quantity (STQ): 10,000 pounds

Equipment, Pressure Vessels, Testing, Etc.: All equipment used to handle, store, transfer or apply anhydrous ammonia must be properly engineered, constructed and maintained in compliance with all applicable regulations and standards. Pressure vessels, piping and appurtenances should be regularly inspected and tested using methods designed to reveal external and internal deterioration or defects that may impact the integrity of the equipment such that an unintended release of anhydrous ammonia may result. Consult with your State Department of Agriculture and other experts, as applicable, concerning the methods that would be most appropriate given the particular circumstances. Refer to 29 CFR 1910.111, *Storage and Handling of Anhydrous Ammonia*; 29 CFR 1910.119, *Process Safety Management of Highly Hazardous Materials*; and the current ANSI standard K61.1, *Safety Requirements for the Storage and Handling of Anhydrous Ammonia*, for additional information.

16. OTHER INFORMATION

- Dec. 18, 1995: The MSDS was rewritten to comply with ANSI Standard Z400.1-1993.
- July 1, 2003: Added toxicity information from the TTI Product Testing Program April 2003.
- October 4, 2006: Added NFP A hazard classification information and updated isolation/protective distances per ERG 2004.
- Dec. 19, 2006: Added Equipment, Pressure Vessel and Testing Information.
- August 24, 2007: Reviewed and revised.
- January 2, 2008: Revised 15. Regulatory Information to add CFATS requirements

The information and recommendations herein are taken from data contained in independent, industry-recognized references including but not limited to NIOSH, OSHA, ANSI, NFP A, DOT ERG, the TTI Product Testing Program, Global Engineering Document, MEDTEXT, HAZARDBTEXT, SARATEXT, CHRIS, OHMTADS, and IRIS. Tera Industries Inc. makes no guarantee, warranty or other representation concerning this substance, since conditions of its use are beyond the control of the company. Tera Industries Inc. disclaims any liability for loss or damage incurred in connection with the use of this substance.

COMBINATION SHORT FORM OF STRAIGHT BILL OF LADING-EXPRESS SHIPPING CONTRACT ADOPTED BY RAIL FREIGHT AND EXPRESS CARRIERS SUBJECT TO THE JURISDICTION OF THE CANADIAN TRANSPORT COMMISSION ISSUED AT SHIPPER'S REQUEST, RECEIVED, SUBJECT TO THE CLASSIFICATIONS AND TARIFFS IN EFFECT ON THE DATE OF ISSUE OF THIS ORIGINAL BILL OF LADING OR, RECEIVED, SUBJECT TO THE RULES FOR THE CARRIAGE OF EXPRESS AND NON-CARLOAD FREIGHT TRAFFIC AND TARIFFS IN EFFECT ON THE DATE OF ISSUE OF THIS ORIGINAL SHIPPING CONTRACT (BILL OF LADING) GOODS DESCRIBED BELOW, IN APPARENT GOOD ORDER, EXCEPT AS NOTED (CONTENTS AND CONDITIONS OF PACKAGES UNKNOWN), MARKED, CONSIGNED AND DESTINED AS INDICATED BELOW, WHICH SAID COMPANY AGREES TO CARRY TO ITS USUAL PLACE OF DELIVERY AT SAID DESTINATION, IF ON ITS ROAD, OTHERWISE TO DELIVER TO ANOTHER CARRIER ON THE ROUTE TO SAID DESTINATION.

Terra SHIPPER
EXPÉDITEUR

161 Bickford Line
COURTRIGHT, ON

FORMULE COMBINÉE ET ABRÉGÉE DE CONNAISSANCE SIMPLE ET DE CONTRAT D'EXPÉDITION PAR MESSAGERIES ADOPTÉE PAR LES COMPAGNIES DE TRANSPORT FERROVIAIRE ET LES MESSAGERIES RÉGIES PAR LA COMMISSION CANADIENNE DES TRANSPORTS, ÉTABLIE À LA DEMANDE DE L'EXPÉDITEUR, REÇU, SOUS RÉSERVE DES CLASSIFICATIONS ET TARIFFS EN VIGUEUR À LA DATE DE DÉLIVRANCE DE CE CONNAISSANCE ORIGINAL, OU SOUS RÉSERVE DES RÉGLEMENTS RÉGISSANT LE TRANSPORT DES MESSAGERIES ET MARCHANDISES DE DÉTAIL ET DES TARIFFS EN VIGUEUR À LA DATE DE DÉLIVRANCE DE CE CONTRAT DE TRANSPORT (CONNAISSANCE), LES MARCHANDISES DESIGNÉES CI-DESSOUS, APPAREMMENT EN BON ÉTAT, SAUF LES REMARQUES FAITES DANS LA PRÉSENTE (LE CONTENU ET L'ÉTAT DU CONTENU) DES COLIS ÉTANT INCONNUS, MARQUÉS ET CONSIGNÉS TEL QU'INDIQUÉ CI-DESSOUS, ET QUE LA COMPAGNIE S'ENGAGE À TRANSPORTER À DESTINATION À SON LIEU HABITUEL DE LIVRAISON, POURVU QUE TELLE DESTINATION SOIT SUR SON PARCOURS, SINON À LES LIVRER À UN AUTRE TRANSPORTEUR FAISANT ROUTE VERS CETTE DESTINATION.

CARRIER NAME/NOM DU TRANSPORTEUR
MBH TRUCKING LLC

BILL OF LADING NO.
N° DE CONNAISSANCE
81267610

THE ANDERSONS INC *
ATTN GLORIA RILEY
PO BOX 119
MAUMEE OH 43537-0119
USA

Carrier Send Freight Bill To:
THE ANDERSONS INC *
ATTN GLORIA RILEY
PO BOX 119
MAUMEE OH 43537-0119

CONSIGNEE
DESTINATAIRE

JORGENSEN FARM CENTER
2215 S. DIETZ ROAD
WILLIAMSTON MI 48898
USA

CUSTOMER ORDER NO.
N° DE COMMANDE DU CLIENT
FP80306-
F903897

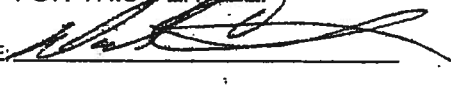
IF CHARGES ARE TO BE PREPAID,
WRITE OR STAMP HERE
TO BE PREPAID
INDIQUER CI SI L'ENVOI SE FAIT EN
"PORT-PAYÉ"

Collect

GROSS
BRUT

TARE 129,620 LBS 58,796 KG
65,160 LBS 29,537 KG
NET 64,460 LBS 29,239 KG

I HEREBY CERTIFY THAT 129 620 LBS.
IS THE LESSER OF THE GROSS REGISTERED
WEIGHT AND THE MAXIMUM ALLOWABLE
GROSS WEIGHT FOR THIS VEHICLE.

DRIVER SIGNATURE: 

VEHICLE T/C NO. MARQUE DU WAGON 16 642
DATE SHIPPED EXPÉDIE LE 05/06/2008

SHIPPING INSTRUCTIONS INSTRUCTIONS POUR L'EXPÉDITION

POINT OF ORIGIN POINT D'EXPÉDITION
COURTRIGHT, ON

ROUTING ITINÉRAIRE

QUANTITY TONS/TONNES 32.230 Tons
DESCRIPTION OF ARTICLES AND SPECIAL MARKS / DESCRIPTION DES ARTICLES ET INDICATIONS SPÉCIALES

RD AMMONIA, ANHYDROUS, CLASS 2.2 (8), UN1005, "INHALATION HAZARD"

← original tons

STCC-4904210

SPECIAL SHIPPING REQUIREMENTS:

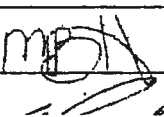
Contract/Tariff Reference:

Analysis:

Emergency Response Assistance Plan # ERP 2-1366
24 Hour Emergency Telephone Number (519) 867-2739
Canutech (613) 996-6666 (français)

CANADIAN FREIGHT ASSOCIATION (EASTERN LINES)
DO NOT CORRECT UNLESS POSITIVE ERROR EXISTS
NE PAS CORRIGER CE POIDS, SAUF EN CAS D'ERREUR
NETTE NO. DONNÉ PRÉVISE
WT. AGREEMENT NO.

SHIPPER EXPÉDITEUR Terra International (Canada) Inc.
161 Bickford Line, COURTRIGHT, ON N0N 1H0

AGENT 

CONSIGNEE DESTINATAIRE

PER PAR

PER PAR

PERMANENT POST OFFICE ADDRESS OF SHIPPER
ADRESSE POSTALE PERMANENTE DE L'EXPÉDITEUR

The Anderson Ag Products

79119

WEBBERVILLE TERMINAL • BOX 769, 2690 N. STOCKBRIDGE ROAD • WEBBERVILLE, MI 48892 • (517) 521-4627 • (800) 292-4525

CUST. # _____
 ORDER # _____
 DATE 5-7-08

SOLD TO Jorgensens

SHIP TO _____
 CUST. P.O. # _____
 DEST. P.O. # _____
 DRIVER - IN _____ OUT _____

QUANTITY	DESCRIPTION	SIZE
	Re-weigh of Ammonia Load #81267610 Anhydrous MBH Truck #16 MBH Trailer #642 32.23 original tons $- 31.77$ after Hawkins weight in tons $= .46$ tons-difference $= 920$ lbs $920 \text{ lbs} / 5.15 = 178.6 \text{ gal lost.}$ 128480 $63,540$	10:32 am 05/07/08 64940 lb TAKE 10:05 am 05/07/08 128480 lb Gross 128480 Net

LOADED BY _____

31.77 ton

It is the policy of The Andersons not to load any vehicle with a weight that exceeds state law. Driver represents maximum legal gross weight for this vehicle is _____ lbs.